

1059 U.S. PTO  
7/60/01

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1C929 U.S. PTO  
09/827937

04/09/01

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ELIZABETH J. HAANES\*\*  
MARK P. TERRY\*\*

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\*\*\*SENIOR COUNSEL

April 9, 2001

WRITER'S DIRECT NUMBER:  
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[BHAANES@SKGF.COM](mailto:BHAANES@SKGF.COM)

**Box Patent Application**

Commissioner for Patents  
Washington, D.C. 20231

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
(Continuation of Appl. No. 09/518,383; Filed: March 3, 2000)  
Appl. No. To be assigned; Filed: Herewith  
For: **Human G-Protein Coupled Receptors**  
Inventors: Li *et al.*  
Our Ref: 1488.1220003/EKS/EJH

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17);
2. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (*in duplicate*);
3. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
4. Application Data Sheet Under 37 C.F.R. § 1.176;
5. U.S. Utility Patent Application entitled:

**HUMAN G-PROTEIN COUPLED RECEPTORS**

Commissioner for Patents

April 9, 2001

Page 2

and naming as inventors:

Yi LI  
Steven M. RUBEN

the application consisting of:

- a. A specification containing:
  - i. 49 pages of description prior to the claims;
  - ii. 3 pages of claims (22 claims);
  - iii. a one (1) page abstract;
- b. 7 sheets of drawings (Figures:1A, 1B, 1C, 2, 3A, 3B, and 4);
- c. 17 pages of a paper copy of a sequence listing;
- d. A copy of the executed Declaration and Power of Attorney, as originally filed in U.S. Appl. No. 08/852,824;
- e. A copy of an assignment to Human Genome Sciences, Inc., as recorded at reel: 8968; frame: 0688;
6. A Preliminary Amendment;
7. A computer readable copy of the sequence listing;
8. A copy of the Associate Power of Attorney filed on June 3, 1999 in the U.S. Appl. No. 08/852,824 , along with the U.S. Patent and Trademark stamped returned postcard;
9. Two (2) return postcards; and
10. Our check No. **30906** for \$1,598.00 cover:

\$ 710.00 Filing fee for patent application;  
\$ 888.00 Fee for excess claims.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same.

Commissioner for Patents  
April 9, 2001  
Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Elizabeth J. Haanes, Ph.D.  
Agent for Applicants  
Registration No. 42,613

EJH/pcd  
Encls.

P:\USERS\BHAANES\1488\122-3\ContAppl\_tmtr

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U.S. PTOPlease type a sign (+) inside this box → 

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCEUTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	1488.1220003/EKS/EJH
First Inventor	Li et al.
Title	Human G-Protein Coupled Receptors
Express Mail Label No.	

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
2.  Applicant claims small entity status.  
See 37 CFR 1.27.
3.  Specification [Total Pages 53]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.  Drawing(s) (35 U.S.C. 113) [Total Sheets 7]
5. Oath or Declaration [Total Pages 1]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
    - i.  DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).
6.  Application Data Sheet. See 37 CFR 1.76.

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

JC529 U.S. PTO  
09/09/01  
04/09/01

## ACCOMPANYING APPLICATION PARTS

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement (when there is an assignee)  Power of Attorney and one Associate Power of Attorney
11.  English Translation Document (if applicable)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Two (2) Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15.  Certified Copy of Priority Document(s) (if foreign priority is claimed)
16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Other: Authorization under 37 C.F.R. § 1.136(a)(3)  Other: The name of the assignee is: Human Genome Sciences, Inc.

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation  Divisional  Continuation-in-Part (CIP)  
Prior application information: Examiner To be assigned

of prior application No: 09/518,383  
Group/Art Unit: 1643

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

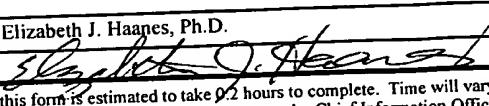
## 19. CORRESPONDENCE ADDRESS

 Customer Number or Bar Code Label

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(Insert Customer N. 28730 Bar code label here)or  Correspondence address below

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. / TRADEMARK OFFICE		
	Attorneys at Law		
ADDRESS	STATE	ZIP CODE	
CITY	TELEPHONE	FAX	
COUNTRY			

NAME (Print/Type)	Elizabeth J. Haanes, Ph.D.	Registration No. (Attorney/Agent)	42,613
SIGNATURE			
Date <u>April 09, 2001</u>			
Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.			

# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$1,598.00)

## Complete if Known

Application Number	To be assigned Cont. of 09/518,383
Filing Date	Herewith
First Named Inventor	Yi Li
Examiner Name	To be assigned
Group Art Unit	To be assigned
Attorney Docket No.	1488.1220003/EKS/EJH

## METHOD OF PAYMENT (check one)

## FEE CALCULATION (continued)

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number 19-0036  
Deposit Account Name Sterne, Kessler, Goldstein & Fox P.L.L.C.

Charge Any Additional Fee Required  
Under 37 CFR §§ 1.16 and 1.17

Applicant claims small entity status  
See 37 CFR 1.27

2.  Payment Enclosed:

Check  Credit card  Money Order  Other\*

\*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	710.00
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$ 710.00)

## 2. EXTRA CLAIM FEES

Extra	Fee from below	Fee Paid
Total Claims 56 - 20** = 36	X 18	= 648.00
Indep. Claims 6 - 3** = 3	X 80	= 240.00
Multiple Dependent		=

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim
108	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

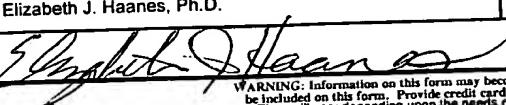
SUBTOTAL (2) (\$ 888.00)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

Complete (if applicable)

## SUBMITTED BY

Name (Print/Type)	Elizabeth J. Haanes, Ph.D.	Registration No. (Attorney/Agent)	42,613	Telephone	202-371-2600
Signature				Date	April 9, 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon individual needs. Any comments on the amount of time you are required to complete this form should be sent to the Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SKG Rev. 11/13/00 mnac

Cont/Appl/fees

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JC929 U.S. PTO  
09/09/01  
04/09/01  
04/09/01

In re application of:

Li *et al.*

Appl. No. To be assigned

(Continuation of Appl. No. 09/518,383; Filed: March 3, 2000)

Filed: Herewith

For: **Human G-Protein Coupled  
Receptors**

Confirmation No. To be assigned

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket: 1488.1220003/EKS/EJH

**Authorization To Treat A Reply As Incorporating An Extension Of  
Time Under 37 C.F.R. § 1.136(a)(3)**

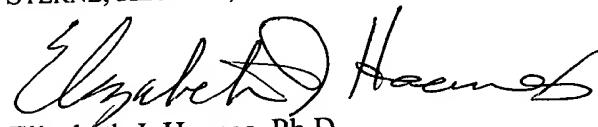
Commissioner for Patents  
Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Elizabeth J. Haanes, Ph.D.  
Agent for Applicants  
Registration No. 42,613

Date: April 9, 2001

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P:\USERS\BHAANES\1488\122-3\ContAppl\_eot



# American Type Culture Collection

12301 Parklawn Drive • Rockville, MD 20852 USA • Telephone: 301-231-5519 or 231-5532 • FAX: 301-816-4366

## BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE *INTERNATIONAL FORM*

### RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT ISSUED PURSUANT TO RULE 7.3 AND VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

1c929 U.S. PTO  
09/827937  
04/09/01

To: (Name and Address of Depositor or Attorney)

Human Genome Sciences, Inc.  
Attn: Robert H. Benson  
9410 Key West Avenue  
Rockville, MD 20850

HGS PATENT DEPT.

351P1-SKB

PF351PP-SKB  
ATCC Designation

209003 ✓  
209004 ✓

Deposited on Behalf of: Human Genome Sciences, Inc. (Ref. PF351PP-SKB)

Identification Reference by Depositor:

DNA Plasmid 405439  
DNA Plasmid 563238

The deposits were accompanied by:  a scientific description  a proposed taxonomic description indicated above.

The deposits were received.

by this International Depository Authority and have been accepted.

#### AT YOUR REQUEST:

We will inform you of requests for the strains for 30 years.

The strains will be made available if a patent office signatory to the Budapest Treaty certifies one's right to receive, or if a U.S. Patent is issued citing the strains, and ATCC is instructed by the United States Patent & Trademark Office or the depositor to release said strains.

If the cultures should die or be destroyed during the effective term of the deposit, it shall be your responsibility to replace them with living cultures of the same.

The strains will be maintained for a period of at least 30 years from date of deposit, or five years after the most recent request for a sample, whichever is longer. The United States and many other countries are signatory to the Budapest Treaty.

The viability of the cultures cited above was tested

On that date, the cultures were viable.

International Depository Authority: American Type Culture Collection, Rockville, Md. 20852 USA

Signature of person having authority to represent ATCC:

Barbara M. Hailey, Administrator, Patent Depository

Date:

## Sequence Information

Gene Name: H.sapiens repeat polymorphism in LIPE gene 1

Library Name: Human Neutrophil, Activated

HGS Code: 563238 Sequence ID: HNF69XX

Date Sequenced:

Lab Sequenced: HGS

Group ID: 2514675 Class: 1

Date Scored:

Lab Scored: HGS

In Group: 18 Previous Class: 1

## Search Results

Overlap	Score	Description
gb X65642 1	260	H.sapiens repeat polymorphism in LIPE gene for hormone sensitive lipase.
gp X54937 HS	93	cannabinoid receptor [Homo sapiens] >pir S S17595 cannabinoid receptor - human >sp P21554 CB1R_HUMAN CANNABINOID RECEPTOR 1
gp X55812 RN	93	putative cannabinoid receptor [Rattus norvegicus] >pir S A33117 cannabinoid receptor - rat >sp P20272 CB1R_RAT CANNABINOID
gp L20334 MD	141	ECG-like receptor [Mus musculus]
gp U10699 RN	152	pH218 [Rattus norvegicus] >pir S JC1465 probable G protein-coupled receptor - rat
gp M31210 HU	210	ECGF1 gene product [Homo sapiens] >pir S A35300 G protein-coupled receptor edg-1 - human >sp P21453 EDG1_HUMAN PROBABLE G P

## Sequence

ID HNF69XX unannotated; DNA; 1637 BP.  
 DE H.sapiens repeat polymorphism in LIPE gene for hormone sensitive lipase.  
 XX  
 DT  
 X

Sequence 1637 BP;  
 GGCACGAGCC CACCCCTGGT CGGGCTCTAG TAGCCCCCG GGGAGGGCCA TGAAGCCAC  
 GGGGACCGG GTGGCCCCGG AGTCTTGCCA ACAGCTGGG GCGGGGGGC ACAGCCGGCT  
 CATTGTTG CACTACAAC ACTGGGGCG GCTGCGGGG CGGGGGGGC CGGAGGATGG  
 CGGCCCTGGG GGCCTGGGG GGCCTGGGGT GCGCTGGCA GCGGGGGC TGCTGGAGAA  
 CTGGCTGGT CTGGGGGCA TCACCAAGCCA CATGGGGCA CAACTGGT GAACTGGG TCTTACTATTTG  
 CCTGGTAAAC ATTACATGA GTGACCTGCT CACGGGGGG GCCTACCTGG CCAAGCTGCT  
 GCTGTGGGG GCGCGGACTT TCCGCTGGGC GCGGGGGCG TGTTTCTAC GGAAGGGCT  
 GCTCTTCAAC GCGCTGGGG CCTCCACCTT CAGCCCTGCTC TTCACTGGAG GGTGTCGCTT  
 TGCCACCATG GGGGGGGGG TGGCGAGAG CGGGGGCAGC AAGACCAAGCC GCGCTCAAGG  
 CCTCATGGC CTCTGGCTGGC TGCCTGGGG ATGCTGGCTT TGCCTGGCTG

for hor

GAACCTCTG TGGCCCTTGC ACCCTGCTC CAGCCCTCTG CCCCTCTACT CCAAGCCCTTA  
CATCCCTTC TGCCTCTGCA TCTTACGGG CCTCTCTGGC ACCATCATGG CCCTCTATGC  
GCCCATCTTC CGCTCTGGTC AGGCCAGGG GCAGAAAGGC CCACGCCAG CGGCCCGCG  
CAAGGCCGG CGCTCTGCA AGACGGTGT AGATCATCTG CTGGCCCTCT TGCTGTGCTG  
GGGACCACTC TGGGGCTTC TGGTGGCCGA CGCTCTGGC TCCAACTCT GGCCTCAGGA  
GTAACCTGGG GGCATGGACT GGATCCTGGC CCTGGCCGTC CTCAACTGG CGTCAACCC  
CATCATCTAC TCCCTCGCA CGAGGGAGGT GTGAGAGGC GTGCTCAGCT TCCCTCTGCTG  
CGGCTGTC CGCTCTGGCA TGGCAGGGGC CGGGGACTGC CTGGCCGG CGTCCAGGG  
TCACCTCCGA GCTTCCACCA CGCACAGCTC TCGAGGGCA AGGGACAGCT TCGGGCTC  
CGCTCTGGTC AGCTTCCGA TCGGGAGGC CCTGTCAGGC ATCTCCAGG TGGGAGCCAT  
CTGAAGTTGC AGTGTTCGTT GTGGATGTTG CAACCACGG GTGGGTGCA CGCAAGGCCCT  
CCTGGGGTAC AGGAAGCTT GTGGCAAGGAA CCTGAGGGAA TATGGGGAGC AGGAACGGG  
ACAGGGCCC ATGGACTTC CGGGTGGCT CTGGGGGCTT CTGAGGCGAT ATGGACTTGC  
CCATTGGCTA TGGCTCACCC TGGACAAGGA GGCAACCACC CCACCTCCCC GTAGGGAGGAG  
AGAGGACCTT CGTGTGGGG CGAGTGGCTT CGGACACACC CGGCTTCTGT GTGCTTCTG  
CGTAGTCCCG GCGCTCTCT AGGGCTCACT GGCTCCAGT AGGGCTCCCA GGCTCCAGG GTGCTGACTGT  
CGGATGCACT CCCTGGCAAC ATTGGAAAC ATTGAAGTIC GATCATGGTA AAAAAAAA AAAAAAAA  
AAAAAAA AAAAAA //

**Sequence Notes**



Human Genome Sciences, Inc.  
Sequence Worksheet  
HNFDL69XX: H.sapiens repeat polymorphism in LIPF gene for hor

## Sequence Information

Gene Name: H.sapiens repeat polymorphism in LIPF gene 1

Library Name: Human Neutrophil, Activated

Date Sequenced:

Lab Sequenced: HGS

Date Scored:

Lab Scored: HGS

Sequence ID: HNFDL69XX  
HGS Code: 563238  
Library Catalog: H0271

## Search Results

Overlap	Score	Description
gb X65642 1	260	H.sapiens repeat polymorphism in LIPF gene for hormone sensitive lipase.
9P X54937 HS	93	cannabinoid receptor [Homo sapiens] >pir S S17595 cannabinoid receptor - human >sp P21554 CB1R_HUMAN CANNABINOID RECEPTOR 1
9P X55812 RN	93	putative cannabinoid receptor [Rattus norvegicus] >pir S A33117 cannabinoid receptor - rat >sp P20272 CB1R_RAT CANNABINOID 1
9P L20334 MO	141	EDG-like receptor [Mus musculus]
9P U10699 RN	152	phD18 [Rattus norvegicus] >pir S JC1465 probable G protein-coupled receptor - rat
9P M31210 HU	210	ECGF1 gene product [Homo sapiens] >pir S A35300 G protein-coupled receptor edg-1 - human >sp P21453 EDG1_HUMAN PROBABLE G P

## Sequence

ID HNFDL69XX unannotated; DNA; 545 BP.

DE H.sapiens repeat polymorphism in LIPF gene for hormone sensitive lipase.  
XX

DT

SQ Sequence 545 BP;  
ARAHPASGLS QPREGTEAMRAT GTPVAPEESQO QIAAGEHSLR IVLHYNHSGR LAGRGGPEDG  
GIGALRGTSV AASCLIVLEN IIVLAATTSW MRSQRWVYYC LWNITIMSDLL TGAAYLNLV  
LSSGARTIFRLA PAQMTFLRKGL IFTLAASIF SLETTAGLRF ATMVRPAES GATKTSRVYG  
FIGLCWLLAA LLGMPPLGN NCJCAFDRCS SILETYSKRY ILFCLVTFAG VLATITMGLY  
AIFRUVQASG QKAPPAAARR KARRLLKTVL MLLIAFLVCM GPLFGLLILAD VRGGSNLWAQE  
YLRCGMIDWLLA LAVINSAVNP ILYSFRSEY CRAVTSFLCC GCLRLGMRGP GDCLARAVEA  
HSGCASTTDSL LRPPDSFRGS RSTSFMRPEP LSSISSVRSI \*SCSLACGAC NFRYRARQAL  
LGYRKICARN LALYCEEQGTG QAPMDLPGEL SCILITPYGLA HCLWLTILKE ATTTPPPRRSR  
EPBGVGAASF PTTPLLCDSG EVPAPLWASV GLPCKGKMTV GCMPWQH\*SS IMKKKKKKKK  
KKKK



Human Genome Sciences, Inc.

Sequence Worksheet

HNFDL69XX: *H.sapiens* repeat polymorphism in LIPF gene for hor

//

Sequence Notes

Applicant: LI *et al.*

Due Date: None

Appl. No.: 08/852,824

Art Unit: 1646

Filed: May 7, 1997

Examiner: Basi, N.

Docket: 1488.1220000

Atty: EKS/HCC

For: Human G-Protein Coupled Receptors

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. Transmittal letter (*in duplicate*);
2. Change of Correspondence Address;
3. Original executed Associate Power of Attorney; and
4. One (1) return postcard.

Please Date Stamp and Return to Our Courier

